

Review of: "Saltwater Intrusion in Coastal Aquifers: A Comprehensive Review and Case Studies from Egypt"

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Potential competing interests: No potential competing interests to declare.

General Comments:

1. Please leave a line space before the title of each heading
2. There are many sub-titles; each sub-title is only two or three lines, which is not needed, such as:
3. 6. Monitoring of Saltwater Intrusion

6.1 Groundwater head measuring

6.2 Geophysical investigation

6.3 Geotechnical investigation

The same in heading 8 and its subtitles.

1. Unify the units across the whole text and use the right format, such as (m³), which should be (m³)
2. English language needs minor modifications and revision.
3. Use the right format for table and figures captions and titles.

Comments

1. Abstract: The abstract should be short and focused, including the problem statement, main objectives, methodology, and the key findings/outcomes. Please reedit the abstract, adding two sentences at least on the outcomes and findings.
2. As you already use "Saltwater" in the title, then in keywords, it's better to use (Seawater), and delete (Management).
3. Introduction: In the second statement, only conventional water resources were mentioned. What about non-conventional water resources such as desalinated water, treated wastewater, agriculture drainage water, etc.?
4. Figure (1) is a very principle and well-known figure. It is not recommended.
5. In Equation (1), it is recommended to use (Word Equation).
6. Sub-Title 3.2, line 5-6: Are the aquifer properties only affecting the transition zone? What about the saltwater salinity and density, natural recharge to the aquifer system,etc.?
7. In Figure (4): Local scales: The hydraulic conductivity is one factor of the type of aquifer and its properties. Also, increased water consumption is similar to excessive pumping.

8. In Figure (4): In Local Scales, add the aquifer recharge, and in Global Scale, add the (Seawater rise due to climate change).
9. Table (1): There is missing information. Please check.
10. Too many subtitles under the main title (8), 8.1, 8.1.1, 8.1.2, 8.2,etc. It is recommended to reduce these many subtitles.
11. Table (20) for better understanding and comparison of the techniques. It is recommended to add (Advantages) also.
12. I recommend adding two paragraphs before (10. Limitations and Future Studies) with the title: Mitigation Measures for Saltwater Intrusion. The authors should review and analyse different options or alternatives such as groundwater aquifer recharge, using scavenger wells for abstraction in affected areas such as the Nile Delta (Recommended References such as
 - The Role of Artificial Recharge of Aquifers in Water Resources Management in Egypt, Water Resources Development and Management, 2024, Part F2503, pp. 15–38.
 - Management of Seawater Intrusion in Coastal Aquifers: A Review, *Water* 2019, 11(12), 2467; <https://doi.org/10.3390/w11122467>
 - Mitigating seawater intrusion in coastal aquifers: Novel approach with treated wastewater injection and groundwater circulation. *Journal of Hydrology*, Volume 626, Part A, November 2023, 130139
 - Hany F. Abd-Elhamid, Ismail Abd-Elaty, and Abdelazim M. Negm, Control of Saltwater Intrusion in Coastal Aquifers
1. Please check if you can eliminate the old references such (ref. 13, 15, and 20). Just recommendation and the decision is left to the authors.